

Economic development @Ulowa

A Team Sport

Joint Economic Development Appropriations Subcommittee
Iowa General Assembly
February 8, 2011



Office of the Vice President for Research

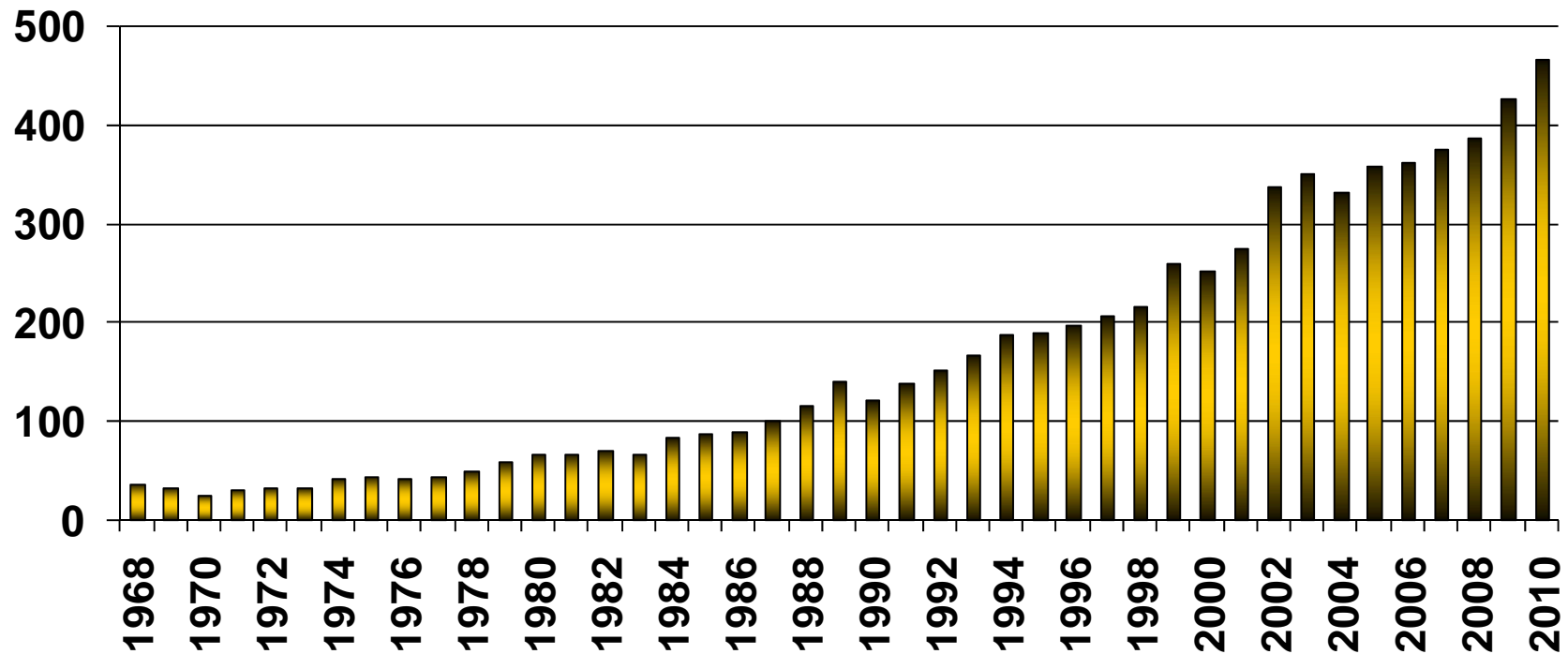
Agenda

- **UI Overview** — Jordan Cohen, VP for Research and Economic Development
- **Technology Transfer and Commercialization** – Pam York, Executive Director UI Research Foundation
- **Preparing the next generation of Iowa entrepreneurial leaders** – David Hensley, Executive Director, John Pappajohn Entrepreneurial Center
- **Biomedical Innovation in Iowa** – Susan Wood, CEO, VIDA Diagnostics
- **Q and A**

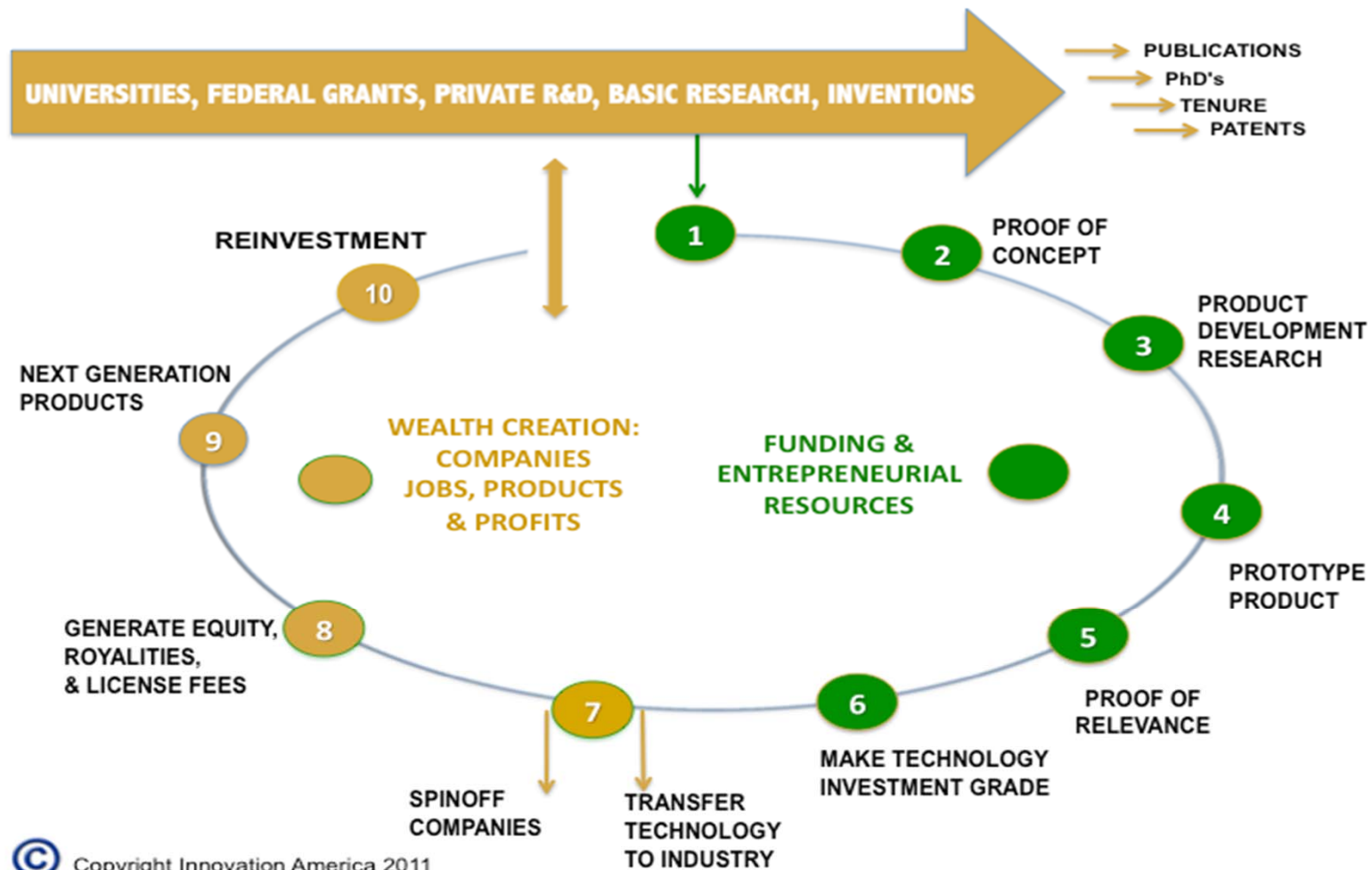
UI Economic Development Overview

- **Partners** — state, industry, investors, communities, regional economic development entities, BOR, Community Colleges
- **Roles** – R&D, technology transfer, commercialization, create new companies, develop entrepreneurs, recruit and retain companies, link university assets with industry, communities, workforce development

External Funding FY 1968-FY 2010



Innovation Innovation & Commercialization Model



BioVentures Center

- 35,000 sq. ft. incubator assisted by Coralville, and State of Iowa (GIVF).
- 20 wet laboratories – housing start up 10 companies currently – 4 of which derive from UI directly.
- Staffing, infrastructure and linkage to University assets similar to TIC
- Potential magnet to attract additional established pharmaceutical and/or biotechnology companies – e.g. Integrated DNA Technologies
- Other park assets including the State Hygienic Laboratory and the National Advanced Driving Simulator



Business Incubation Programs

- The **Technology Innovation Center** provides office space to start up technology-based non laboratory companies.
- **40 individual offices** with 11 current tenants, occupying 27 offices.
- Historically more than **90 companies** have been incubated with a majority still operating in Iowa and a majority by UI students, staff or faculty.
- **Services** - Support includes high speed internet, UI library access, basic administrative infrastructure, capital acquisition and business development resources, conference/meeting rooms.

- **The Bedell Entrepreneurship Learning Laboratory (BELL)/JPEC**
- **Seventeen offices** with furniture, computers and high-speed Internet access, conference/meeting spaces.
- **Services** - mentoring and a variety of other assistance from faculty, the SBDC and area entrepreneurs and business experts. Hosts networking, educational and social events
- **2010 Impact**
 - Estimated New Business Starts - 13
 - Program Participants – 31
 - Estimated Job Creation – 15
 - 97 student teams since May 2004

Overview of GIVF 2011 - \$1,459,200

\$300,000	Support new company formation through UIRF
\$265,250	Support operational and personnel costs of key economic development areas
\$246,250	Fund expenses at the new BioVentures Building
\$331,700	Program support for integration and regional partnerships through OVPR
\$166,000	Support training, consultation and outreach for Iowa entrepreneurs
\$150,000	Expand the CBB into a state-of-the-art Bioprocessing Center

2010 GIVF Seed Grant Competition Winners

Adams, Chris	Application of a proprietary natural compound as a therapy for skeletal muscle atrophy	\$50,000
Anderson, Don	Software based 3D "puzzle" solutions to improve the reconstruction of compound fractures	\$36,064
Baker, Max	Improved anti-convulsant compounds for epilepsy	\$35,000
Das, Shuvendu	Developing lower cost building blocks for the manufacture of bio-therapeutics	\$27,000
Manak, John	Microarray technology for determining individualized genetic profile of disease	\$48,949
McCray, Paul	A proprietary natural oral substance to enhance respiratory immunity against viruses and bacteria	\$49,532
Schultz, Michael	A new imaging agent to improve prostate cancer diagnosis	\$49,500
Lim, Tae-Hong	Injectable-thermosensitive Drug Delivery Vehicle	\$49,000

2011 GIVF Seed Grant Competition Winners

Anderson, Donald	Expanding the clinical value of FxRedux - Partnering with ISU for rapid manufacturing of bone defect filling implants	\$48,000
Baker, Max	Optimization of novel anticonvulsant alkyl-(1-hydroxy-2,2,2-trifluoroethyl) phenolic compounds	\$47,000
Bishop, Gail	Determining the usefulness of human AREs (antibody responsive epitopes) to improve subunit vaccine efficacy	\$39,583
Comeron, Josep	Mismatch EndoNuclease microArray (MENA) to identify novel disease-causing mutations	\$47,920
Doddapaneni, Harsha	Poly(A) free cDNA protocol (PAFcP): A novel protocol for eukaryotic next generation transcriptome sequencing	\$30,554
Howard, Matthew	Remotely Controlled Spinal Cord Stimulation Devices: The I (Iowa) Patch System	\$25,000

2010 State Appropriation

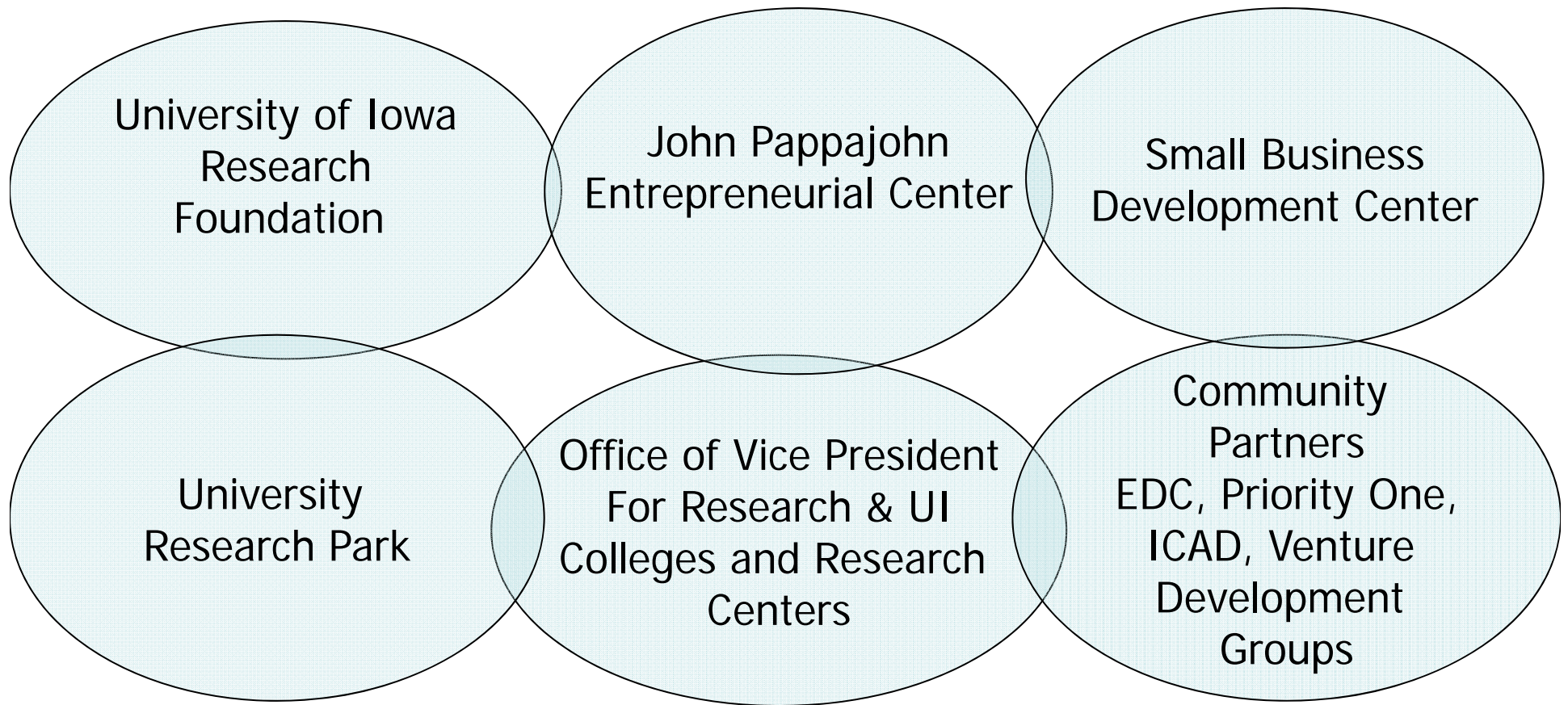
\$222,372

Oakdale Research Park: \$83,427

Technology Innovation Center: \$39,441

Center for Advanced Drug Development: \$99,504

Iowa Centers for Enterprise



Statewide Economic Development

- IDED/Iowa Innovation Council
- Priority 1, Iowa City Area Development Group
- Community Colleges – Entrepreneurial and STEM education
- Partnerships in Sustainable Cities – Dubuque, Decorah, Oskaloosa, Charles City, Burlington, SE Iowa City
- Iowa State University – diabetes/nutrition, vaccines, renewable energy, extension health education
- UNI – STEM education, workforce, social science research
- **UI research** accounts for over \$963 million in Iowa's economy each year and creates 9,000 jobs